

**Case 3200*****Gryllus brachypterus* Ocskay, 1826 (currently *Euthystira brachyptera*) and *Gryllus brachypterus* Haan, 1842 (currently *Duolandrevus brachypterus*) (Insecta, Orthoptera): proposed conservation of the specific names**

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**Abstract.** The purpose of this application under Article 23.9.5 of the Code is to conserve the specific names of *Gryllus brachypterus* Ocskay, 1826 (currently *Euthystira brachyptera* Caelifera, ACRIDOIDEA) and *G. brachypterus* Haan, 1842 (currently *Duolandrevus brachypterus* Ensifera, GRYLLOIDEA) for two distinct species of grasshopper and cricket (Orthoptera) respectively. These two specific names are junior primary homonyms of *G. brachypterus* Linnaeus, 1761 (currently *Metrioptera brachyptera* Ensifera, TETTIGONIOIDEA) a bush cricket. A third junior primary homonym, *G. brachypterus* Linnaeus, 1763 (Phasmida) was later in 1763 given the replacement name *G. necydaloides* by Linnaeus (currently *Pseudophasma phthisicum* (Linnaeus, 1758)) a stick-insect. None of these species has been considered congeneric since the mid-nineteenth century.

**Keywords.** Nomenclature; taxonomy; Orthoptera; Phasmida; Ensifera; TETTIGONIOIDEA; *Gryllus brachypterus*; GRYLLOIDEA; *Duolandrevus brachypterus*; Caelifera; ACRIDOIDEA; *Euthystira brachyptera*; bush crickets; crickets; grasshoppers; phasmids.

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1. Linnaeus (1761, p. 237) established the name *Gryllus brachypterus* for a species of bush cricket (Ensifera, TETTIGONIOIDEA) from Sweden, based on material in De Geer's collection. Linnaeus, (1767, p. 698) synonymised *G. brachypterus* Linnaeus, 1761 with *G. (Tettigonia) viridissimus* Linnaeus, 1758 without explanation. The specific name was resurrected by De Geer (1773, pp. 434–436, pl. 22, figs. 2, 3) in combination with *Locusta* Geoffroy, 1762 (nec Linnaeus, 1758). Gmelin (1790, p. 2068) was the last to use *brachypterus* Linnaeus, 1761 in its original combination. According to Marshall (1983, p. 384) no material of the species is present in the collection of the Linnean Society, London. The species was considered to belong in one of a number of different genera by various subsequent authors; a list of five genera and 28 references is held by the Commission Secretariat. Caudell (1908, p. 31) established the currently accepted usage in combination with *Metrioptera* Wesm el (1838, p. 592) [Ensifera, TETTIGONIOIDEA] (e.g. Chopard, 1952; Harz, 1969; Otte, 1997;

Heller et al., 1998; Ragge & Reynolds, 1998; 21 additional references are held by the Commission Secretariat). Several junior synonyms of the specific name are known (see Zeuner, 1941, pp. 40–41). *Gryllus brachypterus* Linnaeus, 1761 is the type species of *Metrioptera* by monotypy.

2. Linnaeus (1763a [June], p. 14, no. 32) again introduced the name *Gryllus brachypterus* for a new species of phasmid described under *Gryllus* (*Mantis*). Under Article 57.4 of the Code 'the presence of different subgeneric names . . . is irrelevant to the homonymy between the names concerned'. Almost as soon as it was published Linnaeus apparently recognized a problem in giving the same name to a different species. In the second edition of the dissertation, published later in the same year, the new replacement name *Gryllus necydalooides* was given by Linnaeus (1763b [September], p. 397). The species number, description and habitat (Surinam) is exactly the same as that published for *brachypterus* in the first edition (Linnaeus, 1763a). No synonyms were indicated for this taxon. This nominal species, whose name is a junior primary homonym of *Gryllus brachypterus* Linnaeus, 1761, has long been known by another specific name as well as other generic names. Marshall (1983, pp. 379, 384) cited its current usage in *Pseudophasma*. Marshall (1983, p. 381) stated that 'Linnaeus proposed (an) unnecessary replacement name . . . for *brachyptera* [sic]'. However it was not *Gryllus brachypterus* Linnaeus, 1761 but the homonymous species described by Linnaeus (1763a) for which the replacement name *necydalooides* was given (Linnaeus, 1763b). The subgenus *G.* (*Mantis*) was raised to full generic rank and the species cited as *M. necydalooides* by Linnaeus (1767, pp. 689, 691). The name *necydalooides* is currently treated as a junior synonym of *Pseudophasma phthisicum* (Linnaeus, 1758). This nominal species has not been known by its original binomen after it was first published.

3. Ocskay (1826, p. 409) described a new species of grasshopper (Caelifera, ACRIDOIDEA) with the name *Gryllus brachypterus* based on material from Hungary. According to Otte (1995, p. 164) the type series is lost. Furthermore, the neotype designation by Harz (1975, p. 648) is invalid because it failed to meet the qualifying conditions of Article 75(d) of the Code then in force (1964) (see also Marshall, 1983, pp. 376–377). Nevertheless the specific name of *Gryllus brachypterus* Ocskay, 1826 has long been used in combination with other generic names such as *Gomphocerus* Thunberg, 1815 (see Burmeister, 1838, p. 651) in the early 19th century and *Chrysochraon* Fischer, 1853 during the second half of the 19th century. The currently accepted usage in combination with *Euthystira* Fieber in Kelch (1852, p. 2) was established by Bey-Bienko (1932, p. 45; see Coray & Lehmann, 1998, pp. 125–127) and followed by, for example, Chopard (1952), Jago (1971), Yin, Shi & Yin (1996), Heller et al. (1998), Ragge & Reynolds (1998). Sixteen additional references are held by the Commission Secretariat. In a few recent works, however, the name has been cited as *Chrysochraon* (*Euthystira*) *brachyptera* [sic] (Ocskay, 1826) (see Harz, 1975; Thorens & Nadig, 1997). Several synonyms are known, but have not been used for the species (see Yin et al., 1996, pp. 285–286). *Gryllus brachypterus* Ocskay, 1826 is the type species of *Euthystira* by subsequent designation of Bey-Bienko (1932, p. 43).

4. Haan (1842, p. 230) gave the name *Gryllus brachypterus* to a new species of cricket (Ensifera, GRYLLOIDEA) from Java. The work was published in parts between 1842 and 1844 (see Horn & Schenkling, 1928, p. 494). Following Sherborn (1922,

p. 853) we adopt the year 1842 as the date of publication for the original description of *Gryllus brachypterus* Haan. Although he mentioned some specimens, the type series is considered lost (see Otte, 1988, p. 289). The name was used by Walker (1869, p. 42). Saussure (1877, pp. 271–272) redescribed the species and transferred it to *Landrevus*, an unjustified emendation of *Landreva* Walker, 1869. Kirby (1906, p. 50) introduced the new generic name *Duolandrevus* and used the combination *D. brachypterus* which is currently in use (see Chopard, 1967; Otte, 1988, 1994). We are not aware of a junior synonym for the species (see Otte, 1994). *Gryllus brachypterus* Haan, 1842 is the type species of *Duolandrevus* by original designation.

5. The specific names of *Gryllus brachypterus* Ocskay, 1826 and *G. brachypterus* Haan, 1842 are junior primary homonyms of *G. brachypterus* Linnaeus, 1761 and of *G. brachypterus* Linnaeus, 1763. However, none of these species is now included in the original genus *Gryllus* Linnaeus, 1758. The first mentioned two junior homonyms have been consistently in use since their establishment and neither has been used as congeneric with the senior homonym after 1877. *Gryllus brachypterus* Linnaeus, 1761 is the type species of *Metrioptera* Wesmaël, 1838; *G. brachypterus* Ocskay, 1826 is the type species of *Euthystira* Fieber in Kelch, 1852 and *G. brachypterus* Haan, 1842 is the type species of *Duolandrevus* Kirby, 1906. To avoid confusion that would result from upsetting the long-established usage of these junior homonyms and in the interest of nomenclatural stability, we propose that under Article 23.9.5 of the Code these names be conserved, as the species concerned have not been considered congeneric after 1899.

6. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary power to rule that the following names are not invalid:
  - (a) *brachypterus* Ocskay, 1826, as published in the binomen *Gryllus brachypterus*, by reason of being a junior primary homonym of *Gryllus brachypterus* Linnaeus, 1761 and of *Gryllus brachypterus* Linnaeus, 1763;
  - (b) *brachypterus* Haan, 1842, as published in the binomen *Gryllus brachypterus*, by reason of being a junior primary homonym of *Gryllus brachypterus* Linnaeus, 1761, of *Gryllus brachypterus* Linnaeus, 1763 and of *Gryllus brachypterus* Ocskay, 1826;
- (2) to place on the Official List of Generic Names in Zoology the following names:
  - (a) *Metrioptera* Wesmaël, 1838 (gender: feminine), type species by monotypy *Gryllus brachypterus* Linnaeus, 1761;
  - (b) *Euthystira* Fieber in Kelch, 1852 (gender: feminine), type species by subsequent designation by Bey-Bienko (1932) *Gryllus brachypterus* Ocskay, 1826;
  - (c) *Duolandrevus* Kirby, 1906 (gender: masculine), type species by original designation *Gryllus brachypterus* Haan, 1842;
- (3) to place on the Official List of Specific Names in Zoology the following names:
  - (a) *brachypterus* Linnaeus, 1761, as published in the binomen *Gryllus brachypterus* (specific name of the type species of *Metrioptera* Wesmaël, 1838);
  - (b) *brachypterus* Ocskay, 1826, as published in the binomen *Gryllus brachypterus* (specific name of the types species of *Euthystira* Fieber in Kelch, 1852) (not invalid by the ruling in (1)(a) above);

- (c) *brachypterus* Haan, 1842, as published in the binomen *Gryllus brachypterus* (type species of *Duolandrevus* Kirby, 1906) (not invalid by the ruling in (1)(b) above).

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*Euthystira brachypterus* (Ocskay, 1826) from Northern Switzerland, in copula. Photograph: A. Coray.